





you have available to create desktop applications. Learn to use features like file system access, create native menus, OS-specific dialogs and more. The authors will show you how to package your application for distribution for multiple platforms and enable auto-updating. What You Will Learn Leverage your knowledge of HTML, CSS and JavaScript Use current web applications for the desktop Create and use Electron 's main process and render process to create effective desktop applications Communicate between processes and between windows Build desktop applications that can be updated and distributed Who This Book Is For Web developers looking to leverage their HTML, CSS and JavaScript skills to create desktop widgets and applications. Developers wanting to leverage existing a Web application to extend functionality with a desktop application.

Summary Electron in Action guides you, step-by-step, as you learn to build cross-platform desktop applications that run on Windows, OSX, and Linux. By the end of the book, you'll be ready to build simple, snappy applications using JavaScript, Node, and the Electron framework. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Wouldn't it be great to build desktop applications using just your web dev skills? Electron is a framework designed for exactly that! Fully cross-platform, Electron lets you use JavaScript and Node to create simple, snappy desktop apps. Spinning up tools, games, and utilities with Electron is fast, practical, and fun! About the Book Electron in Action teaches you to build cross-platform applications using JavaScript, Node, and the Electron framework. You'll learn how to think like a desktop developer as you build a text tool that reads and renders Markdown. You'll add OS-specific features like the file system, menus, and clipboards, and use Chromium's tools to distribute the finished product. You'll even round off your learning with data storage, performance optimization, and testing. What's inside Building for macOS, Windows, and Linux Native operating system APIs Using third-party frameworks like React Deploying to the Mac App Store About the Reader Requires intermediate JavaScript and Node skills. No experience building desktop apps required. About the Author Steven Kinney is a principal engineer at SendGrid, an instructor with Frontend Masters, and the organizer of the DinosaurJS conference in Denver, Colorado. Table of Contents PART 1 - GETTING STARTED WITH ELECTRON Introducing Electron Your first Electron application PART 2 - BUILDING CROSS-PLATFORM APPLICATIONS WITH ELECTRON Building a notes application Using native file dialog boxes and facilitating interprocess communication Working with multiple windows Working with files Building application and context menus Further operating system integration and dynamically enabling menu items Introducing the tray module Building applications with the menubar library Using transpilers and frameworks Persisting use data and using native Node.js modules Testing applications with Spectron PART 3 - DEPLOYING ELECTRON APPLICATIONS Building applications for deployment Releasing and updating applications Distributing your application through the Mac App Store

Electron is an open-source framework for creating desktop applications with your favorite web technologies: JavaScript, HTML, and CSS. It makes it easy to create a simple app with a few lines of code, using languages you already know. Want to learn more? Join Ray Villalobos as he walks through the techniques you need to master cross-platform desktop development with Electron. Learn how to

configure and communicate between app windows (web pages) via the main and renderer processes; use Vue.js-the progressive JavaScript framework-with Electron; and improve your apps by modifying components and adding modals. Plus, see how to finish up an app by customizing menus and adding an icon for your dock.

Learn to Build Cross Platform Desktop Applications Using Github's Electron

Application Development with Qt Creator

Developing native macOS GUI software with C#

C# 9 and .NET 5 – Modern Cross-Platform Development

Creating Mobile Apps with Xamarin.Forms Preview Edition 2

Design and build applications with modern graphical user interfaces without worrying about platform dependency

C# 10 and .NET 6 – Modern Cross-Platform Development

Enhance your cross-platform programming abilities with the powerful features and capabilities of Qt 6 Key FeaturesLeverage Qt and C++ capabilities to create modern, cross-platform applications that can run on a wide variety of software applicationsExplore what's new in Qt 6 and understand core concepts in depthBuild professional customized GUI applications with the help of Qt CreatorBook Description Qt is a cross-platform application development framework widely used for developing applications that can run on a wide range of hardware platforms with little to no change in the underlying codebase. If you have basic knowledge of C++ and want to build desktop or mobile applications with a modern graphical user interface (GUI), Qt is the right choice for you. Cross-Platform Development with Qt 6 and Modern C++ helps you understand why Qt is one of the favorite GUI frameworks adopted by industries worldwide, covering the essentials of programming GUI apps across a multitude of platforms using the standard C++17 and Qt 6 features. Starting with the fundamentals of the Qt framework, including the features offered by Qt Creator, this practical guide will show you how to create classic user interfaces using Qt Widgets and touch-friendly user interfaces using Qt Quick. As you advance, you'll explore the Qt Creator IDE for developing applications for multiple desktops as well as for embedded and mobile platforms. You will also learn advanced concepts about signals and slots. Finally, the book takes you through debugging and testing your app with Qt Creator IDE. By the end of this book, you'll be able to build cross-platform applications with a modern GUI along with the speed and power of native apps. What you will learnWrite cross-platform code using the Qt framework to create interactive applicationsBuild a desktop application using Qt WidgetsCreate a touch-friendly user interface with Qt QuickDevelop a mobile application using Qt and deploy it on different platformsGet to grips with Model/View programming with Qt Widgets and Qt QuickDiscover Qt's graphics framework and add animations to your user interfaceWrite test cases using the Qt Test framework and debug codeBuild a translation-aware applicationFollow best practices in Qt to write high-performance codeWho this book is for This book is for application developers who want to use C++ and Qt to create modern, responsive applications that can be deployed to multiple operating systems such as Microsoft Windows, Apple macOS, and Linux desktop platforms. Although no prior knowledge of Qt is expected, beginner-level knowledge of the C++ programming language and object-oriented programming system (OOPs) concepts will be helpful.

A project-based guide to help you create, package, and deploy desktop applications on multiple platforms using modern JavaScript frameworks Key FeaturesUse your web development skills with JavaScript and Node.js to build desktop applications for macOS and WindowsDevelop desktop versions of popular mobile applications that are similar to Slack, Spotify, and moreDesign desktop apps with automatic updates and real-time analytics capabilitiesBook Description The Electron framework allows you to use modern web technologies to build applications that share the same code across all operating systems and platforms. This also helps designers to easily transition from the web to the desktop. Electron Projects guides you through building cross-platform Electron apps with modern web technologies and JavaScript frameworks such as Angular, React.js, and Vue.js. You'll explore the process of configuring modern JavaScript frameworks and UI libraries, real-time analytics and automatic updates, and interactions with the operating system. You'll get hands-on with building a basic Electron app, before moving on to implement a Markdown Editor. In addition to this, you'll be able to experiment with major JavaScript frameworks such as Angular and Vue.js, discovering ways to integrate them with Electron apps for building cross-platform desktop apps. Later, you'll learn to build a screenshot snipping tool, a mini-game, and a music player, while also gaining insights into analytics, bug tracking, and licensing. You'll then get to grips with building a chat app, an eBook generator and finally a simple digital wallet app. By the end of this book, you'll have experience in building a variety of projects and project templates that will help you to apply your knowledge when creating your own cross-platform applications. What you will learnInitialize Node.js, Node Package Manager (NPM), and JavaScript to set up your appIntegrate Phaser with Electron to build a simple 2D gameImprove app quality by adding an error tracking system and crash reportsImplement group chat features and event handling capabilities using FirebaseIntegrate a WordPress-like rich-text editor into your appBuild Electron applications using a single codebaseWho this book is for This book is for JavaScript developers who want to explore the Electron framework for building desktop apps. Working knowledge of modern frontend JavaScript frameworks and Node.js is assumed. No prior knowledge of desktop development is required.

Modern Cross-Platform Development About This Book Build modern, cross-platform applications with .NET Core Get up to speed with C#, and up to date with all the latest features of C# 7 Start creating professional web applications with ASP.NET Core Who This Book Is For This book is targeted towards readers who have some prior programming experience or have a science, technology, engineering, or mathematics (STEM) background, and want to gain a solid foundation with C# and to be introduced to the types of applications they could build and will work cross-platform on Windows, Linux, and macOS. What You Will Learn Build cross-platform applications using C# 7 and .NET Core Explore ASP.NET Core and learn how to create professional web applications Improve your application's performance using multithreading Use Entity Framework Core and find out how to build code-first databases Master object-oriented programming with C# to increase code reuse and efficiency Familiarize yourself with cross-device app development using the Universal Windows Platform and XAML Query and manipulate data using LINQ Protect your data by using encryption and hashing In Detail If you want to build powerful cross-platform applications with C# 7 and .NET Core, then this book is for you. First, we'll run you through the basics of C#, as well as object-oriented programming, before taking a quick tour through the latest features of C# 7 such as tuples, pattern matching, out variables, and so on. After quickly taking you through C# and how .NET works, we'll dive into the .NET Standard 1.6 class libraries, covering topics such as performance, monitoring, debugging, serialization and encryption. The final section will demonstrate the major types of application that you can build and deploy cross-device and cross-platform. In this section, we'll cover filled with exciting projects and fascinating theory. It uses three high-impact sections to equip you with all the tools you'll need to build modern, cross-platform applications using C# and .NET Core.

Summary Cross-Platform Desktop Applications guides you step-by-step through creating Node.js desktop applications with NW.js and Electron from GitHub. Foreword by Cheng Zhao, creator of Electron. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Desktop application development has traditionally required high-level programming languages and specialized frameworks. With Electron and NW.js, you can apply your existing web dev skills to create desktop applications using only HTML, CSS, and JavaScript. And those applications will work across Windows, Mac, and Linux, radically reducing development and training time. About the Book Cross-Platform Desktop Applications guides you step by step through the development of desktop applications using Electron and NW.js. This example-filled guide shows you how to create your own file explorer, and then steps through some of the APIs provided by the frameworks to work with the camera, access the clipboard, make a game with keyboard controls, and build a Twitter desktop notification tool. You'll then learn how to test your applications, and debug and package them as binaries for various OSs. What's Inside Create a selfie app with the desktop camera Learn how to test Electron apps with Devtron Learn how to use Node.js with your application About the Reader Written for developers familiar with HTML, CSS, and JavaScript. About the Author Paul Jensen works at Starcount and lives in London, UK. Table of Contents PART 1 - WELCOME TO NODEJS DESKTOP APPLICATION DEVELOPMENT Introducing Electron and NW.js Laying the foundation for your first desktop application Building your first desktop application Shipping your first desktop application PART 2 - DIVING DEEPER Using Node.js within NW.js and Electron Exploring NW.js and Electron's internals PART 3 - MASTERING NODEJS DESKTOP APPLICATION DEVELOPMENT Controlling how your desktop app is displayed Creating tray applications Creating application and context menus Dragging and dropping files and crafting the UI Using a webcam in your application Storing app data Copying and pasting contents from the clipboard Binding on keyboard shortcuts Making desktop notifications PART 4 - GETTING READY TO RELEASE Testing desktop apps Improving app performance with debugging Packaging the application for the wider world

Building Cross-Platform Mobile Apps for Android, iOS, Web & Desktop

Creating Cross-Platform C# Applications with Uno Platform

Using Node, Electron, and NW.js

Build cross-platform applications and GUIs using Qt 5 and C++, 3rd Edition

How to Build GUI Development with Qt5

PhoneGap Build

macOS desktop apps programming with .NET Core 3.1 and Visual Studio for Mac

Discover how to leverage the Uno Platform to write single-codebase, cross-platform mobile, desktop, and web applications using C# and XAML Key FeaturesEnhance your Windows apps by running them on all operating systems and browsersUse tools and APIs you already know to remain productive as you target new platformsCreate realistic apps for various lines of business (LOBs) and consumer scenariosBook Description Developers are increasingly being asked to build native applications that run on multiple operating systems and in the browser. In the past, this would have meant learning new technologies and making multiple copies of an application. But the Uno Platform allows you to use tools, languages, and APIs you already know from building Windows apps to develop apps that can also run on other platforms. This book will help you to create customer-facing as well as line-of-business apps that can be used on the device, browser, or operating system of your choice. This practical guide enables developers to put their C# and XAML knowledge to work by writing cross-platform apps using the Uno Platform. Packed with tips and practical examples, this book will help you to build applications for common scenarios. You'll begin by learning about the Uno Platform through step-by-step explanations of essential concepts, before moving on to creating cross-platform apps for different lines of business. Throughout this book, you'll work with examples that will teach you how to combine your existing knowledge to manage common development environments and implement frequently needed functionality. By the end of this Uno development book, you will have learned how to write your own cross-platform apps with the Uno Platform and use additional tools and libraries to speed up your app development process. What you will learnUnderstand how and why Uno could be the right fit for your needsSet up your development environment for cross-platform app development with the Uno Platform and create your first Uno Platform appFind out how to create apps for different business scenariosDiscover how to combine technologies and controls to accelerate developmentGo beyond the basics and create 'world-ready' applicationsGain the confidence and experience to use Uno in your own projectsWho this book is for This book is for developers who are familiar with app development for Windows and want to use their existing skills to build cross-platform apps. Basic knowledge of C# and XAML is required to get started with this book. Anyone with basic experience in app development using WPF, UWP, or WinUI will be able to learn how to create cross-platform applications with the Uno Platform.

"This book is the best way for beginning developers to learn wxWidgets programming in C++. It is a must-have for programmers thinking of using wxWidgets and those already using it." –Mitch Kapor, founder of Lotus Software and the Open Source Applications Foundation Build advanced cross-platform applications that support native look-and-feel on Windows, Linux, Unix, Mac OS X, and even Pocket PC Master wxWidgets from start to finish—even if you've never built GUI applications before Leverage advanced wxWidgets capabilities: networking, multithreading, streaming, and more Foreword by Mitch Kapor, founder, Lotus Development and Open Source Application Foundation wxWidgets is an easy-to-use, open source C++ API for writing GUI applications that run on Windows, Linux, Unix, Mac OS X, and even Pocket PC—supporting each platform's native look and feel with virtually no additional coding. Now, its creator and two leading developers teach you all you need to know to write robust cross-platform software with wxWidgets. This book covers everything from dialog boxes to drag-and-drop, from networking to multithreading. It includes all the tools and code you need to get great results, fast. From AMD to AOL, Lockheed Martin to Xerox, world-class developers are using wxWidgets to save money, increase efficiency, and reach new markets. With this book, you can, too. wxWidgets quickstart: event/input handling, window layouts, drawing, printing, dialogs, and more Working with window classes, from simple to advanced Memory management, debugging, error checking, internationalization, and other advanced topics Includes extensive code samples for Windows, Linux (GTK+), and Mac OS X

Have you ever thought of creating beautiful, blazing-fast native apps for iOS and Android from a single codebase? Have you dreamt of taking your native apps to the web and desktop without it costing a fortune? If so, Pragmatic Flutter: Building Cross-Platform Mobile Apps for Android, iOS, Web & Desktop is the right place to start your journey to developing cross-platform apps. Google's Flutter is the brand-new way for developing beautiful, fluid, and blazing-fast cross-platform apps for Android, iOS, web, and desktops (macOS, Linux, Windows). Google's new Fuchsia OS user interface (UI) is implemented using Flutter as well. Learning to develop mobile apps with Flutter opens the door to multiple devices, form-factors, and platforms using a single codebase. You don't need any prior experience using Dart to follow along in this book; however, it's recommended that readers have some familiarity with writing code using one of the object-oriented programming languages. Your journey starts with learning to structure and organize the Flutter project to develop apps for multiple platforms. Next, you will explore the fundamentals of Flutter widgets. The journey continues with Flutter's layout widgets while also learning to build responsive layouts. You will get an understanding of organizing and applying themes and styles, handling user input, and gestures. Then you will move on to advanced concepts, such as fetching data over the network and integrating and consuming REST API in your app. You will get hands-on experience on design patterns, data modeling, routing, and navigation for multi-screen apps. When you are finished, you will have a solid foundational knowledge of Flutter that will help you move on to building great and successful mobile apps that can be deployed to Android, iOS, web, and desktop (macOS, Linux, Windows) platforms from a single codebase.

Build powerful cross-platform desktop applications with web technologies such as Node, NW.js, Electron, and React About This Book Build different cross-platform HTML5 desktop applications right from planning, designing, and deployment to enhancement, testing, and delivery Forget the pain of cross-platform compatibility and build efficient apps that can be easily deployed on different platforms. Build simple to advanced HTML5 desktop apps, by integrating them with other popular frameworks and libraries such as Electron, Node.js, NW.js, React, Redux, and TypeScript Who This Book Is For This book has been written for developers interested in creating desktop applications with HTML5. The first part requires essential web-master skills (HTML, CSS, and JavaScript). The second demands minimal experience with React. And finally for the third it would be helpful to have a basic knowledge of React, Redux, and TypeScript. What You Will Learn Plan, design, and develop different cross-platform desktop apps Application architecture with React and local state Application architecture with React and Redux store Code design with TypeScript interfaces and specialized types CSS and component libraries such as Photonkit, Material UI, and React MDL HTML5 APIs such as desktop notifications, WebSockets, WebRTC, and others Desktop environment integration APIs of NW.js and Electron Package and distribute for NW.js and Electron In Detail Building and maintaining cross-platform desktop applications with native languages isn't a trivial task. Since it's hard to simulate on a foreign platform, packaging and distribution can be quite platform-specific and testing cross-platform apps is pretty complicated. In such scenarios, web technologies such as HTML5 and JavaScript can be your lifesaver. HTML5 desktop applications can be distributed across different platforms (Window, MacOS, and Linux) without any modifications to the code. The book starts with a walk-through on building a simple file explorer from scratch powered by NW.js. So you will practice the most exciting features of bleeding edge CSS and JavaScript. In addition you will learn to use the desktop environment integration API, source code protection, packaging, and auto-updating with NW.js. As the second application you will build a chat-system example implemented with Electron and React. While developing the chat app, you will get Photonkit. Next, you will create a screen capturer with NW.js, React, and Redux. Finally, you will examine an RSS-reader built with TypeScript, React, Redux, and Electron. Generic UI components will be reused from the React MDL library. By the end of the book, you will have built four desktop apps. You will have covered everything from planning, designing, and development to the enhancement, testing, and delivery of these apps. Style and approach Filled with real world examples, this book teaches you to build cross-platform desktop apps right from scratch using a step-by-step approach.

Hands-On Cross-Platform Desktop Apps with Electron 5.0

Build applications with C#, .NET Core, Entity Framework Core, ASP.NET Core, and ML.NET using Visual Studio Code, 4th Edition

Learn WinUI 3.0